



# FortiAnalyzer 3500E

# Register for Support

Register your Fortinet product to receive:

- Technical Support
- New product features
- Protection from new threats

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

La reistrazione ti permette di usufruire di:

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本日、フォーティネット製品の登録をしてください。

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テクニカルサポート・新機能の追加・新しい脅威への防御

## 请马上注册

您的飞塔产品

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## Box Includes



FortiAnalyzer 3500E



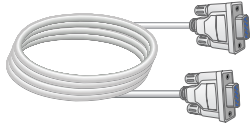
QuickStart Guide



2 Power Cables



Tools and Documentation CD



Console Cable



Ethernet Cable



Rail Mount Kit

## Before You Begin

Write down details that you may need from your network administrator or ISP.

### DSL PPPoE

Username

Password

### Cable Modem DHCP

It is normal to not require a hostname, but your ISP may require it.

Hostname

### T1/E1, Static broadband, Cable, or DSL with a static IP address

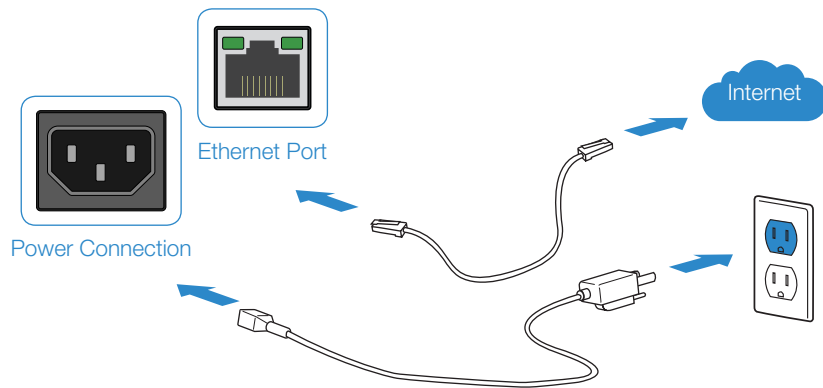
IP Address

Subnet Mask

Default Gateway

Primary/Secondary DNS

## 1 Basic Connections



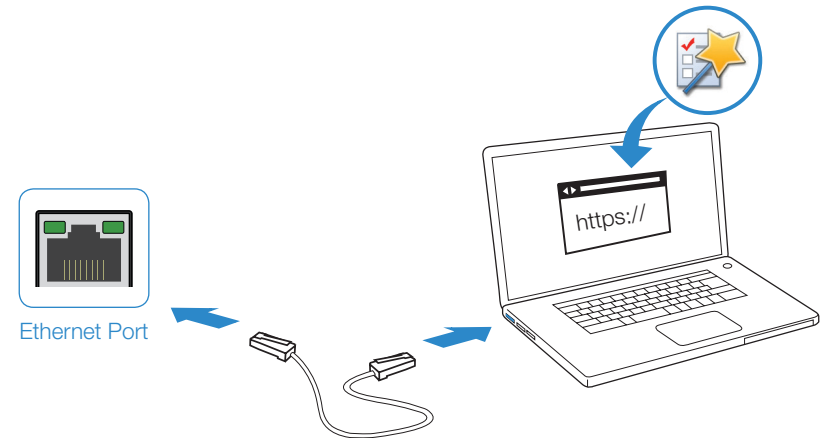
Connect your device to a [power outlet](#) and an [Internet connection](#). This is usually a modem, but could also be another device on your network.

## 2 Setup Options

**A** Web Browser  
Setup Wizard (p.7)

**B** Terminal Emulation  
With console cable (p.8)

## A Web Browser with Ethernet cable



### Web-based Manager

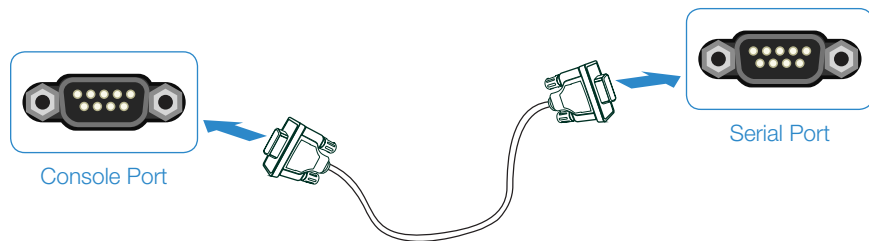
1. Connect the [Ethernet cable](#).
2. Configure the management computer to be on the same [subnet](#) as the internal interface as the FortiAnalyzer unit:

**IP address:** 192.168.1.2

**Netmask:** 255.255.255.0

3. Visit [192.168.1.99](#) in your web browser.
4. Login using username "[admin](#)" and [no password](#).
5. [Configure your device](#) and save your settings.
6. [Register your device](#) from the dashboard page.

## B Terminal Emulation with Console Cable



### To Connect to the CLI

1. Connect the device's [console port](#) to the management computer using the provided [console cable](#).
2. Start a [terminal emulation program](#) on the management computer, select the [COM port](#), and use the following settings:

**Baud Rate:** 9600  
**Data bits:** 8  
**Parity:** None  
**Stop bits:** 1  
**Flow Control:** None

3. Press [Enter](#) on your keyboard to [connect to the CLI](#).
4. Login using username "[admin](#)" and no password. You can now proceed with configuring your device.

Get started by typing "?" for a list of available [commands](#).

Begin typing a command then type "?" for a list of available ways to complete. For example "[config ?](#)" will show the lowest level of configuration options.

For a detailed guide visit <http://docs.fortinet.com/fortigate/reference>.

## 3 Installation

The FortiAnalyzer unit can be mounted in any standard [19 inch rack](#) unit with the provided rail mount kit.

Please read the "Cautions and Warnings" on page 18 prior to installing your device.

**Caution:** Ensure that the hard drives are properly installed prior to rack-mounting your device.

**Caution:** Electrostatic discharge (ESD) can [damage](#) your Fortinet equipment.

**Caution:** To avoid personal [injury](#) or [damage](#) to the unit, it is recommended that [two or more people](#) install the unit into the rack.

### To install the FortiAnalyzer unit into a rack:

1. Ensure that the FortiAnalyzer unit is placed on a stable surface prior to [rack-mount](#) installation.
2. Assemble the [rails](#) and install the system in the rack following the [safety instructions](#) and the rack installation instructions in the [Hardware Installation Guide](#) available in the [Fortinet Document Library](#) (<http://docs.fortinet.com>).
3. Verify that the [spacing](#) around the FortiAnalyzer unit conforms to requirements and that the unit is level.
4. Connect the provided [power cables](#) to the system.
5. Plug the other end of the power cables into separate power sources, such as [uninterruptible power supplies](#) (UPS) or [power distribution units](#) (PDU).
6. Insert one end of the provided [Ethernet cable](#) into one of the Ethernet ports on the FortiAnalyzer unit. Insert the other end to a [router or switch](#) that is connected to the [Internet](#).
7. Press the [power button](#) on the system to turn on the device.

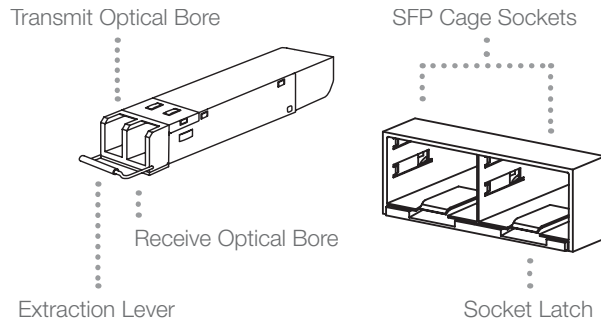
**Note:** Each power cable should be connected to a [different power source](#). In this way, if one power source fails, the other may still be operational and the unit will not lose power. Do not place heavy objects on the unit.

# SFP Transceivers

**Caution:** SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

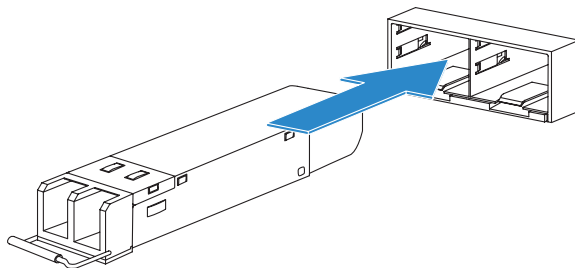
Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

**Note:** Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.



## To install the SFP transceivers

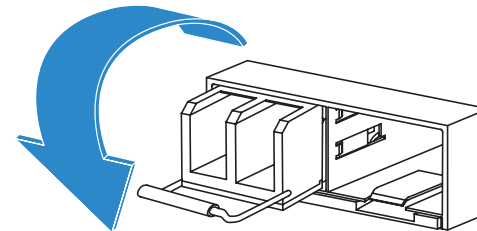
1. Ensure that you are properly grounded.
2. Remove the **caps** from the **SFP cage sockets** on the front panel of the unit.
3. Position the **SFP transceiver** in front of the **cage socket opening** and ensure that the transceiver is correctly oriented. When the **transceiver** is correctly oriented, the **extraction lever** will be level with the **socket latch**.
4. Hold the sides of the **SFP transceiver** and slide it into the **cage socket** until it clicks into place.



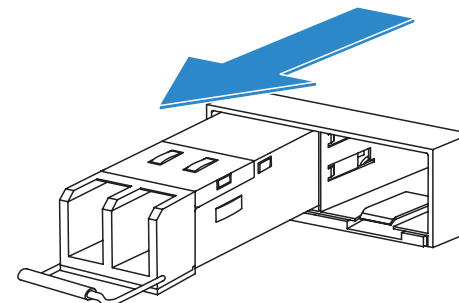
5. Press the **transceiver** firmly into the **cage socket** with your thumb.
6. Verify that the **transceiver** is latched correctly by grasping the sides of the **transceiver** and trying to pull it out without lowering the **extraction lever**.  
If the **transceiver** cannot be removed, it is installed and latched correctly.  
If the **transceiver** can be removed, reinsert it and press harder with your thumb.  
If necessary, repeat this process until the **transceiver** is securely latched into the **cage socket**.

## To remove the SFP transceivers

1. Ensure that you are properly grounded.
2. If applicable, disconnect the **fiber-optic cable** from the **transceiver connector** and install a clean **dust plug** in the **transceiver's optical bores**.
3. Pull the **extraction lever** out and down to eject the **transceiver**. If you are unable to use your finger to open the **lever**, use a **small flat-head screwdriver** or other similar tool to open the **lever**.



4. Hold the sides of the **transceiver** and carefully pull it away from the **cage socket**.



5. Replace the **cap** on the **SFP cage socket** and place the removed **SFP transceiver** into an **antistatic bag**.

**Caution:** Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

**Note:** Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.



**Power Supplies**  
100-240V AC, 50-60Hz  
redundant power supplies

**Console Port (DB-9)**  
Optional connection to the management computer. Provides access to the CLI

**IPMI LAN Port (RJ-45)**  
Dedicated LAN port for Intelligent Platform Management Interface (IPMI) connection.

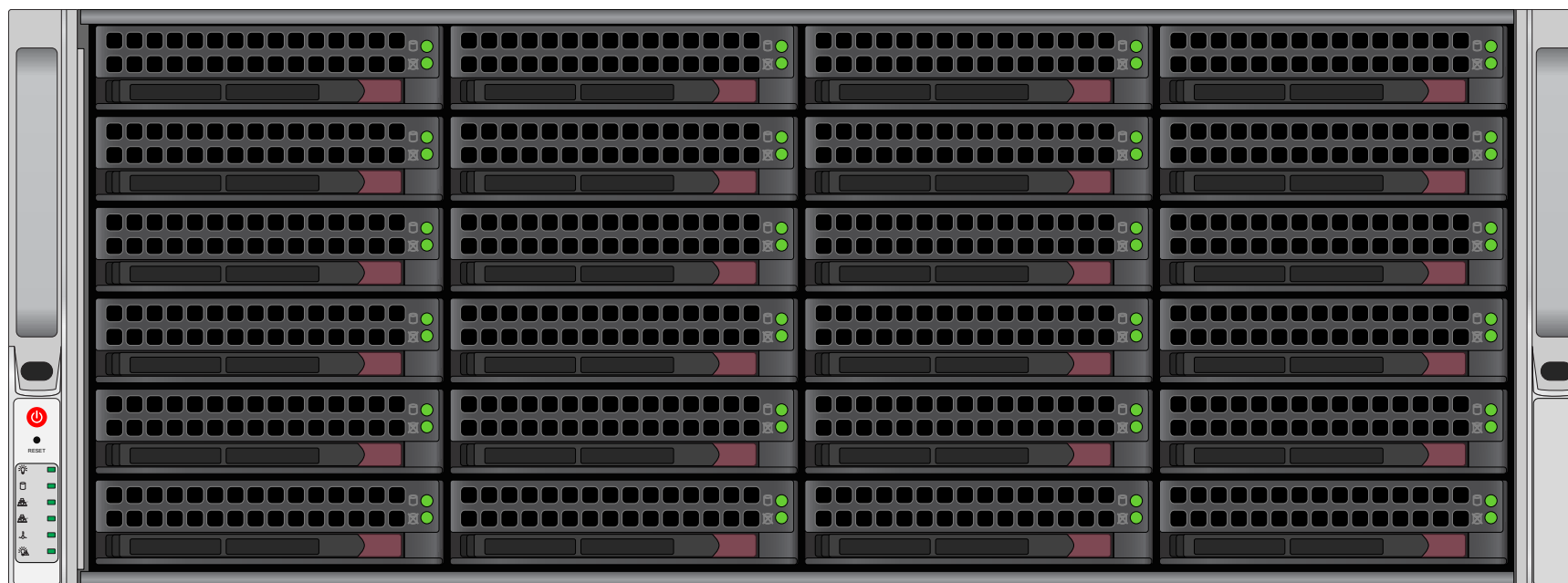
**USB Ports (USB A)**  
Four USB server port for USB key, modem, or management functions.

**SFP Ports (SFP)**  
1Gbps small form-factor pluggable transceiver ports

**Ethernet Ports (RJ-45)**  
Gigabit Ethernet ports for connection to your network and the Internet

**VGA Port (DB-15)**  
Not in use





## Power

- **Green:** System is powered
- **Off:** System is off

## Hard Disks

- **Not is use.**

## Ethernet Ports

- **Green:** Connected
- **Flashing Green:** Transmitting & receiving data
- **Off:** Not connected

## Fan / Overtemperature

- **Red:** System temperature too high
- **Flashing Red:** Fan failure
- **Off:** System normal

## Power Failure

- **Red:** One power supply has failed

## Hard Disk Activity

- **Blue:** Hard disk detected
- **Flashing Blue:** Hard disk activity
- **Off:** No hard disk detected

## Hard Disk Status

- **Red:** Disk has failed or is being rebuilt
- **Off:** Disk operating normally





## Power Supplies

- Green: Power supply operating normally
- Amber: Power supply failure
- Off: Power not connected

## SFP Ports

- Yellow: Connected
- Flashing Yellow: Transmitting & receiving data

## Ethernet Ports Link/Activity

- Yellow: Connected
- Flashing Yellow: Transmitting & receiving data
- Off: Not connected

## Ethernet Ports Speed

- Amber: Connected at 1Gbps
- Green: Connected at 100Mbps
- Off: Connected at 10Mbps or not connected

## Cautions and Warnings

### Environmental Specifications

**Rack Mount Instructions** - The following or similar rack-mount instructions are included with the installation instructions:

**Instructions de montage en rack** - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

**Elevated Operating Ambient** - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T<sub>max</sub>) specified by the manufacturer.

**Température ambiante élevée** – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (T<sub>max</sub>) stipulée par le fabricant.

**Reduced Air Flow** - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

**Ventilation réduite** – Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

**Mechanical Loading** - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

**Chargement Mécanique** – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas lié à un chargement mécanique inégal.

**Circuit Overloading** - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

**Surtenison** – Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

**Reliable Earthing** - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

**Fiabilité de la mise à la terre**– Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

*Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).*

*Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).*

### Safety

**Moving parts** — Hazardous moving parts. Keep away from moving fan blades.

**Pièces mobiles** – Pièces mobiles dangereuses. Se tenir éloigné des lames mobiles du ventilateur.

**Warning:** Equipment intended for installation in Restricted Access Location.

**Avertissement:** Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

**Battery** – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. **IMPORTANT:** Switzerland: Annex 4.10 of SR814.013 applies to batteries.

**Batterie** – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. **IMPORTANT:** Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

**警告**  
**本電池如果更換不正確會有爆炸的危險**  
**請依製造商說明書處理用過之電池**

**Caution:** Disconnect power supply cords before servicing

**Attention:** Débranchez les cordons de la source d'alimentation avant tout entretien.

## Regulatory Compliance

### Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:  
(1) this device may not cause harmful interference, and  
(2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

**WARNING:** Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

### European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



### Voluntary Control Council for Interference (VCCI) – Japan

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### Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

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